

CLINTON RIVER & LAKE ST. CLAIR COMMUNITY BRIEFING ON PFAS

Thursday, November 8th Doors open at 6:00 p.m. Main program to follow at 6:30 – 8:00 p.m.



Michigan's PFAS Response Lake St. Clair

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PFAS – What's in a Name?

- PFAS Per and Polyfluoroakyl substances
- Previously called PFCs for Perfluorinated Compounds
- But PFCs can also mean Perfluorocarbons associated with greenhouse gases
- PFAS, PFOS, PFOA



PFAS 101

What are PFAS?

- Group of chemicals used globally during the past half century in manufacturing, firefighting, and thousands of commercial and industrial uses.
- Stable, persistent and mobile
- Bioaccumulative
- Potential adverse health effects
- Emerging Contaminant



Use of PFAS











Aerospace

Apparel

Building and Construction

Chemicals and Pharmaceuticals

Electronics











Oil & Gas

Energy

Healthcare and Hospitals

Forming Foam

Semiconductors

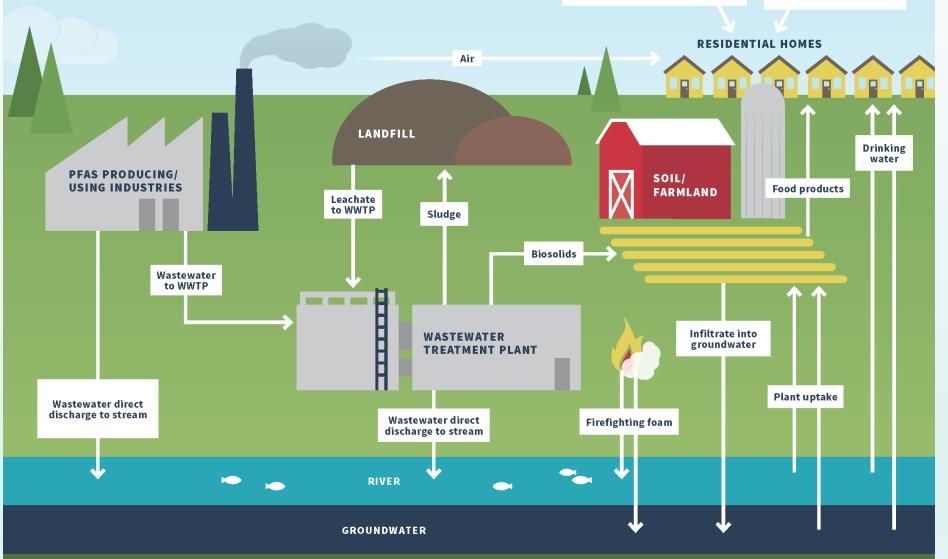
PFAS Cycle

PFAS TREATED MATERIAL

(such as aerosol, fabric protectors, stain resistant carpeting/raincoats/shoes)

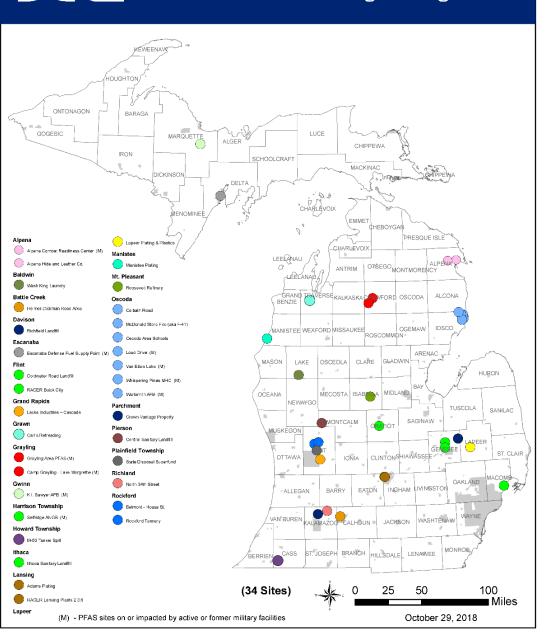
PFAS TREATED FOOD PACKAGING

(such as grease-resistant paper products)





Michigan PFAS Sites Being Investigated





Known Sites

- Ensuring safe drinking water
- Ensuring safe fish consumption
- Determining extent of problem
- Finding & eliminating sources
- Working on remedies



Proactive efforts

- Public drinking water supplies
- Surface Water
 - Ambient water sampling
 - Fish collection
- Wastewater
 - Industrial Pre-treatment Program
 - Biosolids
- Landfills
- Laboratory



Criteria and Guidelines

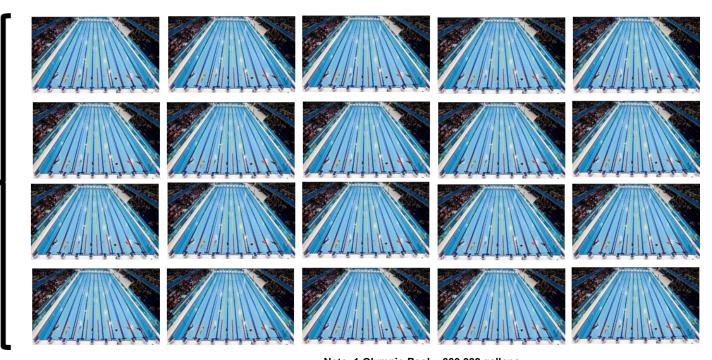
	PFOS + PFOA	PFOS	PFOA
Drinking Water	70 ppt	70 ppt	70 ppt
Groundwater	70 ppt	70 ppt	70 ppt
Surface Water Drinking Water Sources Non-drinking Water Sources	N/A	11 ppt 12 ppt	420 ppt 12,000 ppt



Parts Per Trillion

1 ppt = 1 drop (0.05mL) in 20 Olympic Swimming Pools



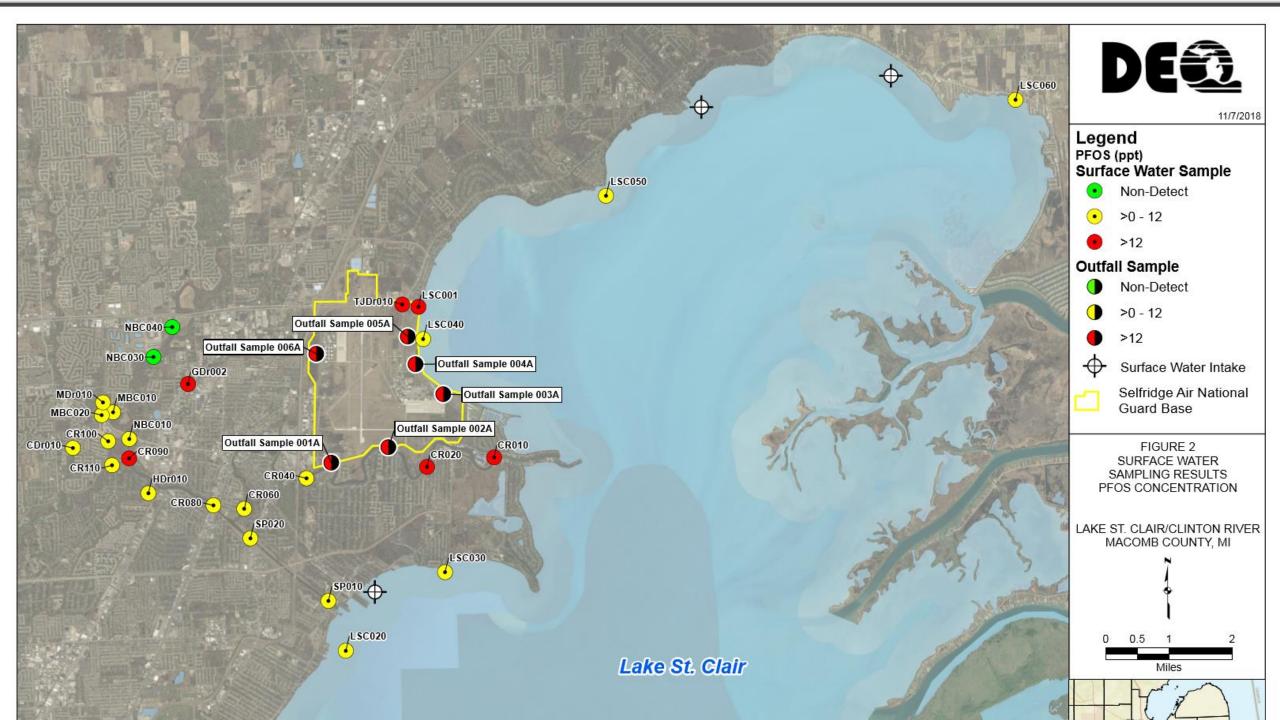


Note: 1 Olympic Pool = 660,000 gallons

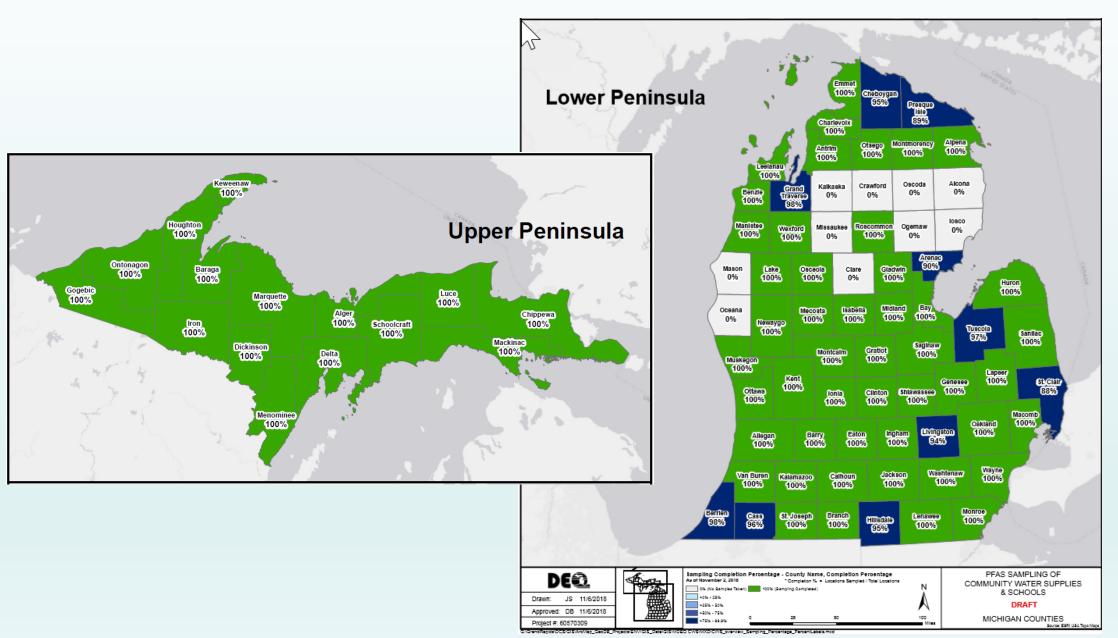


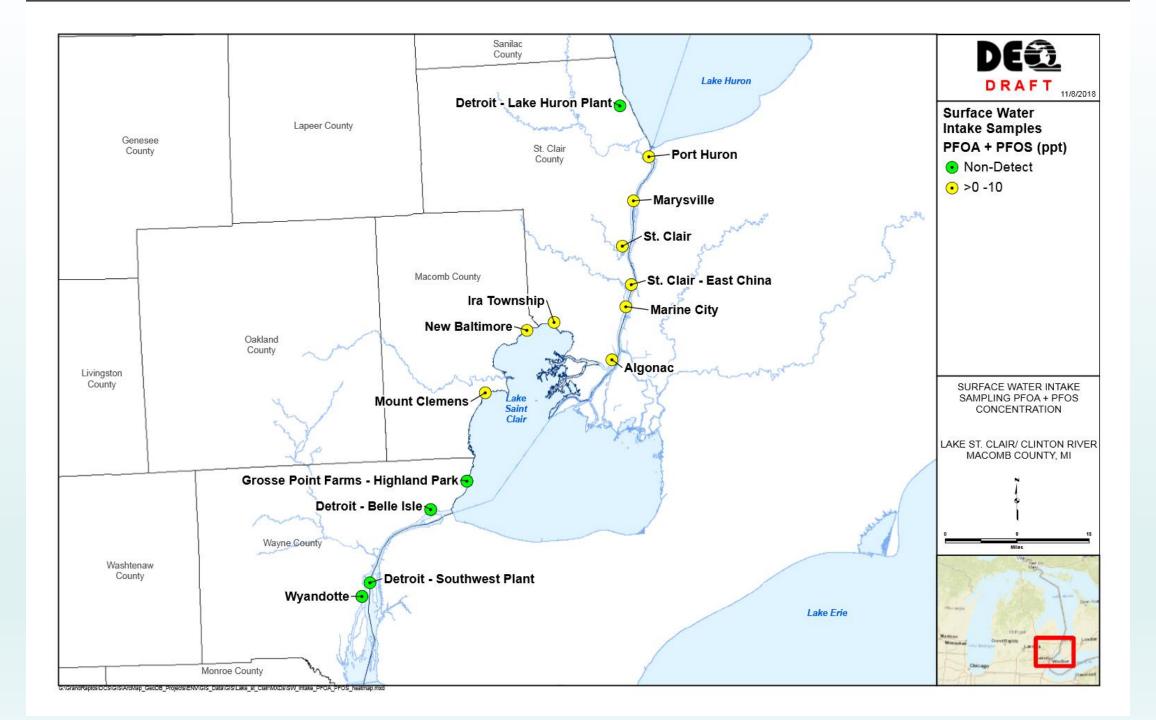
Lake St. Clair

- Water quality sampling
- Drinking water
- Source Investigations
- Fish consumption
- Recreation



Public Drinking Water Testing









What's next?

- Continue source identification efforts
- Additional sampling in the Clinton River
- Work with Selfridge ANGB on short term and long term solutions
- Completion of Public Water Supply testing
- Resampling of surface water intakes

www.Michigan.gov/PFASreponse

